IN THE CLAIMS

1. (Original) A system, comprising:

a local area network management system to manage and configure a network of routers;

a wide area network management system to manage and configure a network of switches; and

address registration information to be appended to a message sent between a first router of the network of routers and a first switch of the network of switches over a connection between the first router and the first switch.

- 2. (Original) The system of claim 1, wherein the address registration information comprises an interface index.
- 3. (Original) The system of claim 2, wherein the interface index comprises a slot number from which the appended message was sent.
- 4. (Original) The system of claim 2, wherein the interface index comprises a port number from which the appended message was sent.
- 5. (Original) The system of claim 1, wherein the address registration information comprises an Internet Protocol address.

- 6. (Original) The system of claim 1, wherein the address registration information comprises spare bytes.
- 7. (Original) The system of claim 1, wherein the router sends the appended message.
- 8. (Original) The system of claim 1, wherein the switch sends the appended message.
- 9. (Original) The system of claim 1, wherein the appended message is an enhanced local management interface message.
- 10. (Original) The system of claim 1, wherein the appended message is sent when the network of switches and the network of routers are first configured.
- 11. (Original) The system of claim 1, wherein the appended message is sent when the network of switches or the network of routers has a change in configuration.
- 12. (Original) The system of claim 1, wherein the appended message is sent at a regular interval.
- 13. (Original) The system of claim 1, wherein the local area network management system uses the address registration information to map the network of switches.

- 14. (Original) The system of claim 13, wherein the local area network management system configures the network of switches.
- 15. (Original) The system of claim 1, wherein the wide area network management system uses the address registration information to map the network of routers.
- 16. (Original) The system of claim 15, wherein the wide area network management system configures the network of routers
- 17. (Original) A method, comprising:
 appending address registration information to a message; and
 sending the message between a router of a router network and a switch of a switch
 network.
- 18. (Original) The method of claim 17, further comprising using the address registration information to map the router network from a wide area network management system controlling the switch network.
- 19. (Original) The method of claim 18, further comprising configuring the router network using the wide area network management system.

- 20. (Original) The method of claim 17, further comprising using the address registration information to map the switch network from a local area network management system controlling the router network.
- 21. (Original) The method of claim 20, further comprising configuring the switch network using the local area network management system.
- 22. (Original) The method of claim 17, wherein the address registration information comprises an Internet Protocol address.
- 23. (Original) The method of claim 17, wherein the address registration information comprises an interface index.
- 24. (Original) The method of claim 23, wherein the interface index comprises a slot number from which the appended message was sent.
- 25. (Original) The method of claim 23, wherein the interface index comprises a port number from which the appended message was sent.
- 26. (Original) The method of claim 17, wherein the address registration information comprises spare bytes.

- 27. (Original) The method of claim 17, wherein the router sends the appended message.
- 28. (Original) The method of claim 17, wherein the switch sends the appended message.
- 29. (Original) The method of claim 17, wherein the appended message is an enhanced local management interface message.
- 30. (Original) The method of claim 17, wherein the appended message is sent when the network of switches and the network of routers are first configured.
- 31. (Original) The method of claim 17, wherein the appended message is sent when the network of switches or the network of routers has a change in configuration.
- 32. (Original) The method of claim 17, wherein the appended message is sent at a regular interval.
- 33. (Original) A machine-readable storage medium tangibly embodying a sequence of instructions executable by the machine to perform a method comprising:

appending address registration information to a message; and sending the message between a router of a router network and a switch of a switch network.

- 34. (Original) The machine-readable storage medium of claim 33, further comprising using the address registration information to map the router network from a wide area network management system controlling the switch network.
- 35. (Original) The machine-readable storage medium of claim 34, further comprising configuring the router network using the wide area network management system.
- 36. (Original) The machine-readable storage medium of claim 33, further comprising using the address registration information to map the switch network from a local area network management system controlling the router network.
- 37. (Original) The machine-readable storage medium of claim 36, further comprising configuring the switch network using the local area network management system.
- 38. (Original) The machine-readable storage medium of claim 33, wherein the address registration information comprises an Internet Protocol address.
- 39. (Original) The machine-readable storage medium of claim 33, wherein the address registration information comprises an interface index.
- 40. (Original) The machine-readable storage medium of claim 39, wherein the interface index comprises a slot number from which the appended message was sent.

- 41. (Original) The machine-readable storage medium of claim 39, wherein the interface index comprises a port number from which the appended message was sent.
- 42. (Original) The machine-readable storage medium of claim 33, wherein the address registration information comprises spare bytes.
- 43. (Original) The machine-readable storage medium of claim 33, wherein the router sends the appended message.
- 44. (Original) The machine-readable storage medium of claim 33, wherein the switch sends the appended message.
- 45. (Original) The machine-readable storage medium of claim 33, wherein the appended message is an enhanced local management interface message.
- 46. (Original) The machine-readable storage medium of claim 33, wherein the appended message is sent when the network of switches and the network of routers are first configured.
- 47. (Original) The machine-readable storage medium of claim 33, wherein the appended message is sent when the network of switches or the network of routers has a change in configuration.

- 48. (Original) The machine-readable storage medium of claim 33, wherein the appended message is sent at a regular interval.
- 49. (Original) A system, comprising:
 a means for appending address registration information to a message; and
 a means for sending the message between a router of a router network and a
 switch of a switch network.
- 50. (Original) The system of claim 49, further comprising a means for using the address registration information to map the router network from a wide area network management system controlling the switch network.
- 51. (Original) The system of claim 50, further comprising a means for configuring the router network using the wide area network management system.
- 52. (Original) The system of claim 49, further comprising a means for using the address registration information to map the switch network from a local area network management system controlling the router network.
- 53. (Original) The system of claim 52, further comprising a means for configuring the switch network using the local area network management system.

- 54. (Original) The system of claim 49, wherein the address registration information comprises an Internet Protocol address.
- 55. (Original) The system of claim 49, wherein the address registration information comprises an interface index.
- 56. (Original) The system of claim 55, wherein the interface index comprises a slot number from which the appended message was sent.
- 57. (Original) The system of claim 55, wherein the interface index comprises a port number from which the appended message was sent.
- 58. (Original) The system of claim 49, wherein the address registration information comprises spare bytes.
- 59. (Original) The system of claim 49, wherein the router sends the appended message.
- 60. (Original) The system of claim 49, wherein the switch sends the appended message.
- 61. (Original) The system of claim 49, wherein the appended message is an enhanced local management interface message.

- 62. (Original) The system of claim 49, wherein the appended message is sent when the network of switches and the network of routers are first configured.
- 63. (Original) The system of claim 49, wherein the appended message is sent when the network of switches or the network of routers has a change in configuration.
- 64. (Original) The system of claim 49, wherein the appended message is sent at a regular interval.
- 65. (Original) A router, comprising:

 a routing unit to send a message to a first switch of a network of switches;

 a connection to connect the routing unit to the first switch; and

 an interface to append an address registration information to the message.
- 66. (Original) The router of claim 65, wherein the address registration information comprises an interface index.
- 67. (Original) The router of claim 66, wherein the interface index comprises a slot number from which the appended message was sent.
- 68. (Original) The router of claim 66, wherein the interface index comprises a port number from which the appended message was sent.

- 69. (Original) The router of claim 65, wherein the address registration information comprises an Internet Protocol address.
- 70. (Original) The router of claim 65, wherein the address registration information comprises spare bytes.
- 71. (Original) The router of claim 65, wherein the appended message is an enhancement local management interface message.
- 72. (Original) The router of claim 65, wherein the appended message is sent at a regular interval.
- 73. (Original) A switch, comprising:

 a switching unit to send a message to a first router of a network of routers;

 a connection to connect the switching unit to the first router; and

 an interface to append an address registration information to the message.
- 74. (Original) The switch of claim 73, wherein the address registration information comprises an interface index.
- 75. (Original) The switch of claim 74, wherein the interface index comprises a slot number from which the appended message was sent.

- 76. (Original) The switch of claim 74, wherein the interface index comprises a port number from which the appended message was sent.
- 77. (Original) The switch of claim 73, wherein the address registration information comprises an Internet Protocol address.
- 78. (Original) The switch of claim 73, wherein the address registration information comprises spare bytes.
- 79. (Original) The switch of claim 73, wherein the appended message is an enhancement local management interface message.
- 80. (Original) The switch of claim 73, wherein the appended message is sent at a regular interval.
- 81. (Original) A method, comprising:

 appending address registration information to a message;

 sending the message between a router of a router network and a switch of a switch

network;

using the address registration information to map the router network from a wide area network management system controlling the switch network;

configuring the router network using the wide area network management system;

using the address registration information to map the switch network form a local area network management system controlling the router network; and configuring the switch network using the local area network management system.